

# HIT-HY 270

## Safety information for 2-Component-products

Date of issue: 08/08/2019

Revision date: 08/08/2019

Supersedes: 07/12/0018

Version: 2.3

### SECTION 1: Kit identification

#### 1.1 Product identifier

Trade name

HIT-HY 270



Product code

BU Anchor

#### 1.2 Details of the supplier of the Safety information for 2-Component-products

Hilti Taiwan Co., Ltd.  
24/F, No. 16, Xinzhan Road, Banqiao Dist.  
220 New Taipei City - Taiwan  
T +886 2 6630 0345;  
0800 221 036 Toll Free - F +886 2 2950 6132  
[twcs@hilti.com](mailto:twcs@hilti.com)

### SECTION 2: General information

Storage Storage temperature : 5 - 25 ° C

A SDS for each of these components is included. Please do not separate any component SDS from this cover page

This Kit should be handled in accordance with good laboratory practices and appropriate personal protective equipment should be used

### SECTION 3: Kit contents

#### Classification of the Product

##### Classification according to the United Nations GHS (Rev. 4, 2011)

Health hazards	Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2A Skin sensitisation, Category 1 Reproductive toxicity, Category 1B
Environmental hazards	Hazardous to the aquatic environment — Acute Hazard, Category 1 Hazardous to the aquatic environment — Chronic Hazard, Category 1
Other hazards not mentioned above are	Not applicable or No data is available.

#### Label elements

# HIT-HY 270

## Safety information for 2-Component-products

### Labelling according to the United Nations GHS (Rev. 4, 2011)

Hazard pictograms (GHS TW)



Signal word (GHS TW)

Danger

Hazardous ingredients

methacrylates, dibenzoyl peroxide, boric acid

Hazard statements (GHS TW)

H315 - Causes skin irritation.  
 H317 - May cause an allergic skin reaction.  
 H319 - Causes serious eye irritation.  
 H360 - May damage fertility or the unborn child.  
 H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (GHS TW)

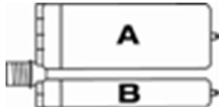
P280 - Wear eye protection, protective clothing, protective gloves.  
 P262 - Do not get in eyes, on skin, or on clothing.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P302+P352 - IF ON SKIN: Wash with plenty of water.  
 P337+P313 - If eye irritation persists: Get medical advice/attention.  
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

### Additional information

2-Component-foilpack, contains:

Component A: Urethane methacrylate resin, inorganic filler

Component B: Dibenzoyl peroxide, phlegmatized



Name	General description	Quantity	Unit	Classification according to the United Nations GHS (Rev. 4, 2011)
HIT-HY 270, B		1	pcs	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
HIT-HY 270, A		1	pcs	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Repr. 1B, H360 Aquatic Acute 3, H402 Aquatic Chronic 3, H412

### SECTION 4: General advice

General advice

For professional users only

### SECTION 5: Safe handling advice

General measures

Spilled material may present a slipping hazard

Environmental precautions

Prevent entry to sewers and public waters

# HIT-HY 270

## Safety information for 2-Component-products

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Storage conditions	Notify authorities if liquid enters sewers or public waters Keep cool. Protect from sunlight.
Precautions for safe handling	Wear personal protective equipment Avoid contact with skin and eyes Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work Provide good ventilation in process area to prevent formation of vapour
Methods for cleaning up	This material and its container must be disposed of in a safe way, and as per local legislation Mechanically recover the product Store away from other materials.
For containment	Collect spillage.
Incompatible materials	Sources of ignition Direct sunlight
Incompatible products	Strong bases Strong acids

### SECTION 6: First aid measures

First-aid measures after eye contact	Rinse immediately with plenty of water Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists
First-aid measures after ingestion	Rinse mouth Drink plenty of water Get medical advice/attention. Do not induce vomiting Obtain emergency medical attention
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air Allow the victim to rest
First-aid measures after skin contact	Wash contaminated clothing before reuse. Wash with plenty of water/... If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures general	Take off immediately all contaminated clothing. Never give anything by mouth to an unconscious person If you feel unwell, seek medical advice (show the label where possible)
Symptoms/effects after eye contact	May cause severe irritation
Symptoms/effects after skin contact	May cause an allergic skin reaction.

### SECTION 7: Fire fighting measures

Firefighting instructions	Use water spray or fog for cooling exposed containers Exercise caution when fighting any chemical fire Prevent fire fighting water from entering the environment
Protection during firefighting	Self-contained breathing apparatus Do not enter fire area without proper protective equipment, including respiratory protection
Hazardous decomposition products in case of fire	Thermal decomposition generates : Carbon dioxide Carbon monoxide



# HIT-HY 270

Safety information for 2-Component-products

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## **SECTION 8: Other information**

No data available

# HIT-HY 270, A

## Safety Data Sheet

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10302007861, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

Date of issue: 2019/08/08 Revision date:2019/08/08 Supersedes: 2018/12/06 Version: 2.2

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### Product identifier

Product form Mixture  
Product name HIT-HY 270, A  
Product code BU Anchor

#### Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture Composite mortar component for fasteners in the construction industry

#### Details of the supplier of the safety data sheet

##### Supplier

Hilti Taiwan Co., Ltd.  
24/F, No. 16, Xinzhan Road, Banqiao Dist.  
220 New Taipei City - Taiwan  
T +886 2 6630 0345;  
0800 221 036 Toll Free - F +886 2 2950 6132  
[twcs@hilti.com](mailto:twcs@hilti.com)

##### Department issuing data specification sheet

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Hiltistraße 6  
86916 Kaufering - Deutschland  
T +49 8191 906876  
[anchor.hse@hilti.com](mailto:anchor.hse@hilti.com)

#### Emergency telephone number

Emergency number Schweizerisches Toxikologisches Informationszentrum - 24h Service  
+41 44 251 51 51 (international)  
+886 2 2357 9090  
0800 221 036 Toll Free

### SECTION 2: Hazards identification

#### Classification of the substance or mixture

##### GHS classification (Taiwan)

Health hazards Skin corrosion/irritation, Category 2  
Serious eye damage/eye irritation, Category 2A  
Skin sensitisation, Category 1  
Reproductive toxicity, Category 1B  
Environmental hazards Hazardous to the aquatic environment — Acute Hazard, Category 3  
Hazardous to the aquatic environment — Chronic Hazard, Category 3  
Other hazards not mentioned above are Not applicable or No data is available.

#### Label elements

##### Labelling according to the United Nations GHS (Rev. 4, 2011)

Hazard pictograms (GHS TW)



GHS07



GHS08

Signal word (GHS TW)

Danger

Hazard statements (GHS TW)

(H315) Causes skin irritation.  
(H317) May cause an allergic skin reaction.  
(H319) Causes serious eye irritation.

# HIT-HY 270, A

## Safety Data Sheet

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10302007861, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

Prevention precautionary statements	(H360) May damage fertility or the unborn child. (H412) Harmful to aquatic life with long lasting effects.
Response Precautionary Statements	(P280) Wear eye protection, protective clothing, protective gloves. (P262) Do not get in eyes, on skin, or on clothing. (P305+P351+P338) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P333+P313) If skin irritation or rash occurs: Get medical advice/attention. (P337+P313) If eye irritation persists: Get medical advice/attention. (P302+P352) IF ON SKIN: Wash with plenty of Water.

### Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### Substances

Not applicable

### Mixtures

Name	Product identifier	Concentration
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (2-甲基-2-丙烯酸-1,2-丙二醇酯)	(CAS-No.) 27813-02-1	10 - 25
Bisphenol-A-diethoxy-methacrylate (2,2-双[4-(异丁烯酰氧基乙氧基)苯基]丙烷)	(CAS-No.) 24448-20-2	5 - 10
Tricyclodecane dimethanol dimethacrylate	(CAS-No.) 43048-08-4	2,5 - 5
1,1,1-Trimethylolpropane trimethacrylate (2-甲基-2-丙烯酸-2-乙基-2-[[2-甲基-1-氧代-2-丙烯基]氧]甲基]-1,3-丙二醇酯)	(CAS-No.) 3290-92-4	2,5 - 5
1,1'-(p-tolylimino)dipropan-2-ol (1,1'-[(4-甲基苯基)亚氨基]二-2-丙醇)	(CAS-No.) 38668-48-3	0,1 - 1
boric acid	(CAS-No.) 10043-35-3	0,1 - 1
4-tert-butylpyrocatechol	(CAS-No.) 98-29-3	0,1 - 1

Full text of H-statements: see section 16

# HIT-HY 270, A

## Safety Data Sheet

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10302007861, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

### SECTION 4: First aid measures

#### First aid measures for different exposure routes

First-aid measures general	Take off immediately all contaminated clothing. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	Wash contaminated clothing before reuse. Wash with plenty of water/... If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	Rinse mouth. Drink plenty of water. Get medical advice/attention. Do not induce vomiting. Obtain emergency medical attention.

#### Protection for the first aid staff

Symptoms/effects after skin contact	May cause an allergic skin reaction.
Symptoms/effects after eye contact	May cause severe irritation.

#### Protection for the first aid staff

Personal Protection in First Aid and Measures	Avoid all unnecessary exposure
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#### Notes to physician

No additional information available

### SECTION 5: Firefighting measures

#### Extinguishing media

Suitable extinguishing media	Water spray. Carbon dioxide. Dry powder. Foam. Sand.
Unsuitable extinguishing media	Do not use a heavy water stream.

#### Specific hazards arising from firefighting measures

#### Specific firefighting methods

Firefighting instructions	Use water spray or fog for cooling exposed containers - Exercise caution when fighting any chemical fire - Prevent fire fighting water from entering the environment
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#### Special protective equipment and precautions for fire-fighters

Protection during firefighting	Self-contained breathing apparatus - Do not enter fire area without proper protective equipment, including respiratory protection
Personal protection (Emergency response)	-

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## Safety Data Sheet

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10302007861, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

General measures	Spilled material may present a slipping hazard.
<b>For non-emergency personnel</b>	
Emergency procedures	Evacuate unnecessary personnel.
<b>For emergency responders</b>	
Protective equipment	Use personal protective equipment as required. Equip cleanup crew with proper protection.
Emergency procedures	Ventilate area.

#### Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### Methods and material for containment and cleaning up

For containment	Collect spillage.
Methods for cleaning up	This material and its container must be disposed of in a safe way, and as per local legislation. Mechanically recover the product. Store away from other materials.
Other information	Dispose of materials or solid residues at an authorized site.

### SECTION 7: Handling and storage

#### Handling

Precautions for safe handling	Wear personal protective equipment. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
Handling temperature	5 - 40 ° C
Hygiene measures	Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

#### Storage precautionary statements

Storage conditions	Keep cool. Protect from sunlight.
Incompatible products	Strong bases. Strong acids.
Incompatible materials	Sources of ignition. Direct sunlight.
Storage temperature	5 - 25 ° C
Heat and ignition sources	Keep away from heat and direct sunlight.

### SECTION 8: Exposure controls / Personal protection equipment



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## Safety Data Sheet

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10302007861, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

### Personal protective equipment

#### General:

Personal protective equipment Safety glasses. Gloves. Protective clothing. Avoid all unnecessary exposure.

Hand protection Wear protective gloves. The permeation time is not the maximum wearing time! Generally speaking, it must be reduced. Contact with either mixtures of substances or different substances may shorten the protective function's effective duration.

Type	Material	Permeation	Thickness (mm)	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,12	EN 374

Eye protection Wear security glasses which protect from splashes

Type	Use	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166, EN 170

Skin and body protection Wear suitable protective clothing



Environmental exposure controls Avoid release to the environment.

Consumer exposure controls Avoid contact during pregnancy/while nursing.

### SECTION 9 Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state	Solid
Appearance	Thixotropic paste.
Colour	light brown.
Odour	characteristic.
Odour threshold	Not determined
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	> 100 ° C DIN EN ISO 1523
Auto-ignition temperature	Not self-igniting
Decomposition temperature	No data available
Flammability (solid, gas)	Non flammable.
Vapour pressure	No data available
Relative vapour density at 20 ° C	No data available
Relative density	No data available
Density	1.66 g/cm <sup>3</sup> DIN 51757
Solubility	Water: Not miscible



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## Safety Data Sheet

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10302007861, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	80 Pa · s HN-0333
Explosive properties	Product is not explosive.
Oxidising properties	No data available
Explosive limits	No data available

### Other information

No additional information available

### SECTION 10: Stability and reactivity

Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	No additional information available
Conditions to avoid	Direct sunlight. Extremely high or low temperatures
Incompatible materials	Strong acids Strong bases
Hazardous decomposition products	fume Carbon monoxide Carbon dioxide Under normal conditions of storage and use, hazardous decomposition products should not be produced

### SECTION 11: Toxicological information

#### Likely routes of exposure

No additional information available

#### Synonyms

Potential adverse human health effects and symptoms Based on available data, the classification criteria are not met

#### Acute toxicity

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified

HIT-HY 270, A	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	> 20 mg/l/4h
1, 1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
LD50 oral rat	25 mg/kg
LD50 dermal rat	> 2000 mg/kg
4-tert-butylpyrocatechol (98-29-3)	
LD50 oral rat	815 mg/kg bodyweight (Rat; Lethal; ECHA)
LD50 oral	2820 mg/kg

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## Safety Data Sheet

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10302007861, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

LD50 dermal rat	1331 mg/kg bodyweight (Rat;Lethal; ECHA)
LD50 dermal	630 mg/kg
<b>2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)</b>	
LD50 oral rat	> 5000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >=2000 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	>= 5000 mg/kg bodyweight (Rabbit; Experimental value)
<b>1,1,1-Trimethylolpropane trimethacrylate (3290-92-4)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 3000 mg/kg
<b>boric acid (10043-35-3)</b>	
LD50 oral rat	2660 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >2600 mg/kg bodyweight; Rat; Experimental value)
LD50 oral	2660 mg/kg
LD50 dermal rabbit	> 2000 mg/kg Rabbit; Experimental value; FIFRA (40 CFR)
LC50 inhalation rat (mg/l)	> 2.12 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))

Acute toxicity (oral) - Description	Not classified
LD50 oral rat	> 2000 mg/kg
Acute toxicity (dermal) - Description	Not classified
LD50 dermal rat	> 2000 mg/kg
Acute toxicity (gas) - Description	Not classified
Acute toxicity (vapour) - Description	Not classified
Acute toxicity (dust) - Description	Not classified
Acute toxicity (mist) - Description	Not classified
LC50 inhalation rat (Vapours - mg/l/4h)	> 20 mg/l/4h
Serious eye damage/eye irritation - Description	Causes serious eye irritation.
Skin corrosion/irritation - Description	Causes skin irritation.
Skin or Respiratory sensitization - Description	May cause an allergic skin reaction.
Germ cell mutagenicity - Description	Not classified
Carcinogenicity - Description	Not classified
Specific target organ toxicity (single exposure) - Description	Not classified
Specific target organ toxicity (repeated exposure) - Description	Not classified
Aspiration hazard - Description	Not classified

## SECTION 12: Ecological information

### Ecotoxicity HIT-HY 270, A

Acute aquatic toxicity Harmful to aquatic life.

<b>1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)</b>	
LC50 fish l	≈ 17 mg/l
LC50 other aquatic organisms l	245 mg/l
EC50 Daphnia l	28.8 mg/l
NOEC (acute)	57.8 mg/l

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## Safety Data Sheet

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10302007861, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

<b>4-tert-butylpyrocatechol (98-29-3)</b>	
LC50 fish 1	0.12 mg/l (96 h, Danio rerio, Lethal, ECHA)
EC50 Daphnia 1	> µg/l
ErC50 (algae)	10.17 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
<b>2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)</b>	
LC50 fish 1	493 mg/l (48 h; Leuciscus idus; GLP)
EC50 Daphnia 1	> 143 mg/l (48 h; Daphnia magna; GLP)
Threshold limit algae 1	> 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)
Threshold limit algae 2	> 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)
<b>1,1,1-Trimethylolpropane trimethacrylate (3290-92-4)</b>	
LC50 fish 1	2 mg/l
ErC50 (algae)	3.88 mg/l
NOEC chronic fish	0.138 mg/l
NOEC chronic crustacea	0.177 mg/l
<b>boric acid (10043-35-3)</b>	
LC50 fish 1	447 mg/l
EC50 Daphnia 1	658 - 875 mg/l (48 h; Daphnia magna)
LC50 fish 2	79 ppm (96 h; Salmo gairdneri (Oncorhynchus mykiss); Hard water)
EC50 Daphnia 2	19.7 mg/l (336 h; Daphnia magna)
ErC50 (algae)	290 mg/l
NOEC chronic fish	2.1 mg/l
<b>Persistence and degradability</b>	
<b>HIT-HY 270, A</b>	
Persistence and degradability	Not established.
<b>4-tert-butylpyrocatechol (98-29-3)</b>	
Persistence and degradability	Not readily biodegradable in water. Inherently biodegradable.
ThOD	2.4 g O <sub>2</sub> /g substance
<b>2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)</b>	
Persistence and degradability	Readily biodegradable in water.
<b>Bioaccumulative potential</b>	
<b>HIT-HY 270, A</b>	
Bioaccumulative potential	Not established.
<b>1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)</b>	
BCF fish 1	≈
Log Kow	2.1
<b>4-tert-butylpyrocatechol (98-29-3)</b>	
Log Pow	1.98 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 ° C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)</b>	
BCF fish 1	<= 100
BCF fish 2	3.2 Quantitative structure-activity relationship (QSAR)
Log Pow	0.97 (OECD 102 method)
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).
<b>1,1,1-Trimethylolpropane trimethacrylate (3290-92-4)</b>	
BCF fish 2	366 l/kg
Log Pow	3.53
Log Kow	4.39





# HIT-HY 270, A

## Safety Data Sheet

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10302007861, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

ADR	IMDG	IATA	RID
No supplementary information available			

### 14.6. Special precautions for user

**- Overland transport**

**- Transport by sea**

No data available

**- Air transport**

No data available

**- Rail transport**

Carriage prohibited (RID) No

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

No data available

## SECTION 15: Regulatory information

No data available

## SECTION 16: Other information

Full text of H-statements:

H300	Fatal if swallowed.
H302	Harmful if swallowed.
H303	May be harmful if swallowed
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

SDS prepared by

Information contact

anchor.hse@hilti.com



# HIT-HY 270, A

## Safety Data Sheet

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10302007861, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

Version 2.2  
Date of issue 2019/08/08  
Revision date 2019/08/08  
Supersedes 2018/12/06

Indication of changes:

Section	Changed item	Change	Comments
1	Supplier's details	Modified	

Other information None.

SDS\_TW\_Hilti

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

# HIT-HY 270, B

## Safety Data Sheet

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10302007861, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

Date of issue: 2019/08/08 Revision date:2019/08/08 Supersedes: 2018/12/17 Version: 2.3

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### Product identifier

Product form Mixture  
Product name HIT-HY 270, B  
Product code BU Anchor

#### Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture Composite mortar component for fasteners in the construction industry

#### Details of the supplier of the safety data sheet

##### Supplier

Hilti Taiwan Co., Ltd.  
24/F, No. 16, Xinzhan Road, Banqiao Dist.  
220 New Taipei City - Taiwan  
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##### Department issuing data specification sheet

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86916 Kaufering - Deutschland  
T +49 8191 906876  
[anchor.hse@hilti.com](mailto:anchor.hse@hilti.com)

#### Emergency telephone number

Emergency number Schweizerisches Toxikologisches Informationszentrum - 24h Service  
+41 44 251 51 51 (international)  
+886 2 2357 9090  
0800 221 036 Toll Free

### SECTION 2: Hazards identification

#### Classification of the substance or mixture

##### GHS classification (Taiwan)

Health hazards Skin sensitisation, Category 1  
Environmental hazards Hazardous to the aquatic environment — Acute Hazard, Category 1  
Hazardous to the aquatic environment — Chronic Hazard, Category 1  
Other hazards not mentioned above are Not applicable or No data is available.

#### Label elements

##### Labelling according to the United Nations GHS (Rev. 4, 2011)

Hazard pictograms (GHS TW)



GHS07

GHS09

Signal word (GHS TW)

Warning

Hazard statements (GHS TW)

(H317) May cause an allergic skin reaction.  
(H410) Very toxic to aquatic life with long lasting effects.

Prevention precautionary statements

(P280) Wear eye protection, protective clothing, protective gloves.  
(P262) Do not get in eyes, on skin, or on clothing.



# HIT-HY 270, B

## Safety Data Sheet

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10302007861, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

Response Precautionary Statements (P305+P351+P338) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
(P333+P313) If skin irritation or rash occurs: Get medical advice/attention.  
(P337+P313) If eye irritation persists: Get medical advice/attention.  
(P302+P352) IF ON SKIN: Wash with plenty of Water.

### Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### Substances

Not applicable

### Mixtures

Name	Product identifier	Concentration
dibenzoyl peroxide (過氧化二苯甲醯)	(CAS-No.) 94-36-0	5 - 10

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### First aid measures for different exposure routes

First-aid measures general Take off immediately all contaminated clothing. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact Wash contaminated clothing before reuse. Wash with plenty of water/... If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion Rinse mouth. Drink plenty of water. Get medical advice/attention. Do not induce vomiting. Obtain emergency medical attention.

### Protection for the first aid staff

Symptoms/effects after skin contact May cause an allergic skin reaction.  
Symptoms/effects after eye contact May cause severe irritation.



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### Protection for the first aid staff

Personal Protection in First Aid and Measures      Avoid all unnecessary exposure

### Notes to physician

No additional information available

## SECTION 5: Firefighting measures

### Extinguishing media

Suitable extinguishing media      Water spray. Carbon dioxide. Dry powder. Foam. Sand.  
Unsuitable extinguishing media      Do not use a heavy water stream.

### Specific hazards arising from firefighting measures

### Specific firefighting methods

Firefighting instructions      Use water spray or fog for cooling exposed containers - Exercise caution when fighting any chemical fire - Prevent fire fighting water from entering the environment  
-

### Special protective equipment and precautions for fire-fighters

Protection during firefighting      Self-contained breathing apparatus - Do not enter fire area without proper protective equipment, including respiratory protection  
Personal protection (Emergency response)      -

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

General measures      Spilled material may present a slipping hazard.

#### For non-emergency personnel

Emergency procedures      Evacuate unnecessary personnel.

#### For emergency responders

Protective equipment      Use personal protective equipment as required. Equip cleanup crew with proper protection.  
Emergency procedures      Ventilate area.

### Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### Methods and material for containment and cleaning up

For containment      Collect spillage.  
Methods for cleaning up      This material and its container must be disposed of in a safe way, and as per local legislation. Mechanically recover the product. Store away from other materials.

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Other information Dispose of materials or solid residues at an authorized site.

### SECTION 7: Handling and storage

#### Handling

Precautions for safe handling Wear personal protective equipment. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

#### Storage precautionary statements

Storage conditions Keep cool. Protect from sunlight.

Incompatible products Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight.

Storage temperature 5 - 25 ° C

Heat and ignition sources Keep away from heat and direct sunlight.

### SECTION 8: Exposure controls / Personal protection equipment

#### Personal protective equipment

##### General:

Personal protective equipment Safety glasses. Gloves. Protective clothing. Avoid all unnecessary exposure.

Hand protection Wear protective gloves. The permeation time is not the maximum wearing time! Generally speaking, it must be reduced. Contact with either mixtures of substances or different substances may shorten the protective function's effective duration.

Type	Material	Permeation	Thickness (mm)	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,12	EN 374

Eye protection Wear security glasses which protect from splashes

Type	Use	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166, EN 170

Skin and body protection Wear suitable protective clothing



Environmental exposure controls Avoid release to the environment.

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Consumer exposure controls	Avoid contact during pregnancy/while nursing.
Other information	Do not eat, drink or smoke during use.

### SECTION 9 Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state	Solid
Appearance	Thixotropic paste.
Colour	white.
Odour	characteristic.
Odour threshold	Not determined
pH	≈ 6
Relative evaporation rate (butylacetate=1)	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	Not self-igniting
Decomposition temperature	No data available
Flammability (solid, gas)	Non flammable.
Vapour pressure	No data available
Relative vapour density at 20 ° C	No data available
Relative density	No data available
Density	1.7 g/cm <sup>3</sup> DIN 51757
Solubility	Water: Not miscible
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	90 Pa • s HN-0333
Explosive properties	Product is not explosive.
Oxidising properties	No data available
Explosive limits	No data available

#### Other information

SADT	65 ° C
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### SECTION 10: Stability and reactivity

Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	No additional information available
Conditions to avoid	Direct sunlight. Extremely high or low temperatures
Incompatible materials	Strong acids Strong bases

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Hazardous decomposition products                      fume  
 Carbon monoxide  
 Carbon dioxide  
 Under normal conditions of storage and use, hazardous decomposition products should not be produced

### SECTION 11: Toxicological information

#### Likely routes of exposure

No additional information available

#### Synonyms

Potential adverse human health effects and symptoms                      Based on available data, the classification criteria are not met

#### Acute toxicity

Acute toxicity (oral)    Not classified  
 Acute toxicity (dermal)    Not classified  
 Acute toxicity (inhalation)    Not classified

### SECTION 12: Ecological information

#### Ecotoxicity

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Acute aquatic toxicity    Very toxic to aquatic life.

dibenzoyl peroxide (94-36-0)	
EC50 Daphnia 1	0.11 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
LC50 fish 2	0.0602 mg/l (96h; Oncorhynchus mykiss; ECHA)
NOEC (acute)	0.0316 mg/l (96h; Oncorhynchus mykiss; ECHA)
NOEC chronic fish	< 0.001

#### Persistence and degradability

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Persistence and degradability	Not established.
dibenzoyl peroxide (94-36-0)	
Persistence and degradability	Readily biodegradable in water. Not established. May cause long-term adverse effects in the environment.

#### Bioaccumulative potential

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Bioaccumulative potential	Not established.
dibenzoyl peroxide (94-36-0)	
Log Pow	3.71
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).



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According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10302007861, "Regulations for the Labeling and Hazard Communication of Hazardous Chemicals"

### Mobility in soil

dibenzoyl peroxide (94-36-0)	
Log Koc	3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
Ecology - soil	Adsorbs into the soil.

### Other adverse effects

Other information Avoid release to the environment.

## SECTION 13: Disposal considerations

Waste treatment methods	Dispose of contents/container in accordance with licensed collector' s sorting instructions
Ecology - waste materials	Avoid release to the environment.
Sewage disposal recommendations	-
Product/Packaging disposal recommendations	After curing, the product can be disposed of with household waste. ,Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations,Packaging contaminated by the product : Dispose in a safe manner in accordance with local/national regulations
Additional information	Clean up even minor leaks or spills if possible without unnecessary risk

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	RID
<b>14.1. UN number</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>			
Not regulated	Not regulated	Not regulated	Not regulated
Environmentally hazardous substances derogation applies (quantity of liquids $\leq$ 5 litres or net mass of solids $\leq$ 5 kg)			
not restricted according ADR Special Provision SP375, IATA-DGR Special Provision A197 and IMDG-Code 2.10.2.7			



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### 14.6. Special precautions for user

#### - Overland transport

Special provisions (ADR) 375

#### - Transport by sea

No data available

#### - Air transport

Special provisions (IATA) A197

#### - Rail transport

Carriage prohibited (RID) No

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

No data available

## SECTION 15: Regulatory information

No data available

## SECTION 16: Other information

Full text of H-statements:

H241	Heating may cause a fire or explosion.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

#### SDS prepared by

Information contact anchor.hse@hilti.com  
Version 2.3  
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Indication of changes:

Section	Changed item	Change	Comments
1	Supplier's details	Modified	

Other information None.



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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*